

CodeBook.md

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Code Book - Getting and Cleaning Data Project

This code book that describes the variables, the data, and the transformations to reproduce the tidy data as shown in output file, “tidydata.txt”

Identifier variables

The first two columns in the tidydata.txt, subject and activity, are used as identifier.

- subject
ID of the test subject (30 volunteers), integer type, ranges 1-30
- activity
ID of activity, character string, with one of the following values
 - WALKING: subject was walking
 - WALKING_UPSTAIRS: subject was walking upstairs
 - WALKING_DOWNSTAIRS: subject was walking downstairs
 - SITTING: subject was sitting
 - STANDING: subject was standing
 - LAYING: subject was laying

Measurement variables

- timeBodyAccelerometerMeanX
- timeBodyAccelerometerMeanY
- timeBodyAccelerometerMeanZ
- timeBodyAccelerometerStdX
- timeBodyAccelerometerStdY
- timeBodyAccelerometerStdZ
- timeGravityAccelerometerMeanX
- timeGravityAccelerometerMeanY
- timeGravityAccelerometerMeanZ
- timeGravityAccelerometerStdX
- timeGravityAccelerometerStdY
- timeGravityAccelerometerStdZ
- timeBodyAccelerometerJerkMeanX
- timeBodyAccelerometerJerkMeanY
- timeBodyAccelerometerJerkMeanZ
- timeBodyAccelerometerJerkStdX
- timeBodyAccelerometerJerkStdY

- timeBodyAccelerometerJerkStdZ
- timeBodyGyroscopeMeanX
- timeBodyGyroscopeMeanY
- timeBodyGyroscopeMeanZ
- timeBodyGyroscopeStdX
- timeBodyGyroscopeStdY
- timeBodyGyroscopeStdZ
- timeBodyGyroscopeJerkMeanX
- timeBodyGyroscopeJerkMeanY
- timeBodyGyroscopeJerkMeanZ
- timeBodyGyroscopeJerkStdX
- timeBodyGyroscopeJerkStdY
- timeBodyGyroscopeJerkStdZ
- timeBodyAccelerometerMagnitudeMean
- timeBodyAccelerometerMagnitudeStd
- timeGravityAccelerometerMagnitudeMean
- timeGravityAccelerometerMagnitudeStd
- timeBodyAccelerometerJerkMagnitudeMean
- timeBodyAccelerometerJerkMagnitudeStd
- timeBodyGyroscopeMagnitudeMean
- timeBodyGyroscopeMagnitudeStd
- timeBodyGyroscopeJerkMagnitudeMean
- timeBodyGyroscopeJerkMagnitudeStd
- frequencyBodyAccelerometerMeanX
- frequencyBodyAccelerometerMeanY
- frequencyBodyAccelerometerMeanZ
- frequencyBodyAccelerometerStdX
- frequencyBodyAccelerometerStdY
- frequencyBodyAccelerometerStdZ
- frequencyBodyAccelerometerJerkMeanX
- frequencyBodyAccelerometerJerkMeanY
- frequencyBodyAccelerometerJerkMeanZ
- frequencyBodyAccelerometerJerkStdX
- frequencyBodyAccelerometerJerkStdY
- frequencyBodyAccelerometerJerkStdZ
- frequencyBodyGyroscopeMeanX
- frequencyBodyGyroscopeMeanY
- frequencyBodyGyroscopeMeanZ
- frequencyBodyGyroscopeStdX
- frequencyBodyGyroscopeStdY
- frequencyBodyGyroscopeStdZ
- frequencyBodyAccelerometerMagnitudeMean
- frequencyBodyAccelerometerMagnitudeStd
- frequencyBodyAccelerometerJerkMagnitudeMean
- frequencyBodyAccelerometerJerkMagnitudeStd
- frequencyBodyGyroscopeMagnitudeMean
- frequencyBodyGyroscopeMagnitudeStd
- frequencyBodyGyroscopeJerkMagnitudeMean
- frequencyBodyGyroscopeJerkMagnitudeStd

Produce HTML and PDF output files

```
library("rmarkdown")
rmarkdown::render("CodeBook.md",output_format = "all")
```